



**MULTI-PATH MACHINING CENTER**

**JS-D590S-2**

**Technical Specification**

Version 2025

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## General Description



Under the background of increasingly fierce competition in the modern manufacturing and machining industry, JOJOY SEIKO has creatively introduced the **Multi-Path Machining Center Series** with **an innovative and unique structural design** to help our customers significantly **reduce costs** and **increase efficiency**. It can not only effectively control the costs of purchasing, labor and land etc., but also the efficiency is even **several times higher** than that of universal machining centers of the world's top brands.

## Features

- + The main structure of machine tool is consisted of **only cast iron HT300** with high stability and rigidity.
- + **2-Path design** means which can achieve **2-station simultaneous machining** to improve the efficiency heavily with relatively independent **2 spindles, 2 worktables and 2 servo ATCs**.
- + All the servo motors are equipped with absolute value bus encoders for accuracy compensation independently.
- + 4-axis or 5-axis rotary table and probe optional for customized requirements.

## Technical Data

TECHNICAL DATA	UNITS	JS-D590S-2
<b>Travel &amp; Range</b>		
X-axis Travel	mm	500*2
Y-axis Travel	mm	800*2
Z-axis Travel	mm	400*2
Distance from spindle nose to countertop	mm	200-600
<b>Worktable</b>		
Quantity	-	2
Worktable size	mm	500*1100
Max. loading capacity	kg	400
T-slot (width/quantity/distance)	mm/pes/mm	18/5/90
<b>Spindle</b>		
Quantity	-	2
Max. spindle speed	rpm	12000
Spindle taper	-	BT 40
Spindle power	kw	11
Drive type	-	Direct-drive
Spindle cooling system	-	Oil cooling (Opt.)
<b>Controller &amp; Servo System</b>		
CNC controller	-	SYNTEC
X/Y/Z servo motor power	kw	4/3.6/4*2
<b>Servo ATC</b>		
Quantity	-	2
Capacity	T	24T*2
Max. tool diameter	mm	78
Max. tool length	mm	250
Max. tool weight	kg	8
Tool-to-tool	s	2
<b>Feed Rate</b>		
X/Y/Z Rapid traverse	mm/min	36000
X/Y/Z Cutting speed	mm/min	10000
<b>Accuracy</b>		
X/Y/Z Positioning accuracy	mm	±0.005/300
X/Y/Z Repeatability	mm	±0.003/300
<b>Other Data</b>		
Air source required	Kgf/cm <sup>2</sup>	6.5
Gross weight	kg	7500
Overall dimension (L*W*H)	mm	3270*2610*2926
Rated power	kw	45

## Standard Accessories

ITEMS	BRAND	ORIGIN	REMARKS
CNC controller	SYNTEC	Taiwan	-
Spindle servo motor	SYNTEC	Taiwan	-
X/Y/Z servo motor	SYNTEC/INOVANCE	Taiwan/China	-
Spindle	DEJO/SPINDER	Taiwan	
Ball screw	THK/IF	Japan/Germany	X/Y/Z: 32/32/40mm
Rolling guide	THK/REXROTH	Japan/Germany	PMI/HTPM Optional
Bearing	NACHI/NSK	Japan	-
Coupling	NBK	Japan	-
Servo ATC	OKADA/AIMACH	China	24T*2
Electrical components	SCHNEIDER	France	-
Pneumatic system	SMC	Japan	-
Lubricating system	BAOTN	China	-
Cutting coolant system	-	China	-
Chip conveyor	-	China	3 screw-type
AC for electrical cabinet	-	China	
Air through spindle	-	China	-
Electronic handwheel	-	China	-
Bottom chip flushing	-	China	-
Tool setter	-	China	Contact measurement

## Optional Accessories

NO.	OPTIONS
1	MITSUBISHI / HNC CNC controller
2	Variable spindle power/speed/torque
3	Variable ATC capacity
4	Probe for workpiece set-up & inspection
5	Coolant through spindle
6	4-axis / 5-axis rotary table
7	Oil mist collector
8	Oil cooler
9	Chain-type chip conveyor

## Inspection and Acceptance

In case this is the part of the contract, the Seller shall notify the Buyer of the specified time for inspection at least 30 days in advance, and the Buyer shall send a representative to the Seller's factory, before packaging the equipment, to execute it in accordance with the requirements stipulated in the contract as following:

- **Standard 3-axis simultaneous cutting test and measurement.**
- **Positioning accuracy test and measurement.**
- **Other specific and reasonable tests and measurements.**

If the Buyer's representative fails to arrive at the Seller's factory for inspection as scheduled, the contractual equipment will not be delayed in packaging and delivery. Therefore, the Buyer's representative could only complete the procedure on other equipment of the same model or be regarded as a waiver of it.

The Seller shall provide the Buyer with the inspection report obtained according to the requirements stipulated in the contract, and if the inspection results meet the requirements, it shall be deemed that the contractual equipment has passed the inspection. The Buyer and the Seller shall then sign the acceptance confirmation.

## Technical Documents

- **Operation Manual \* 1 Copy**
- **Programming Manual \* 1 Copy**
- **Mechanical Manual \* 1 Copy**
- **Electrical Manual \* 1 Copy**

## Seal and Signature

■ **The Seller**

■ **The Buyer**